National Energy Technology Laboratory



Energy Efficiency
Project Management Center

Larry Carpenter

Deputy, NETL PMC EERE

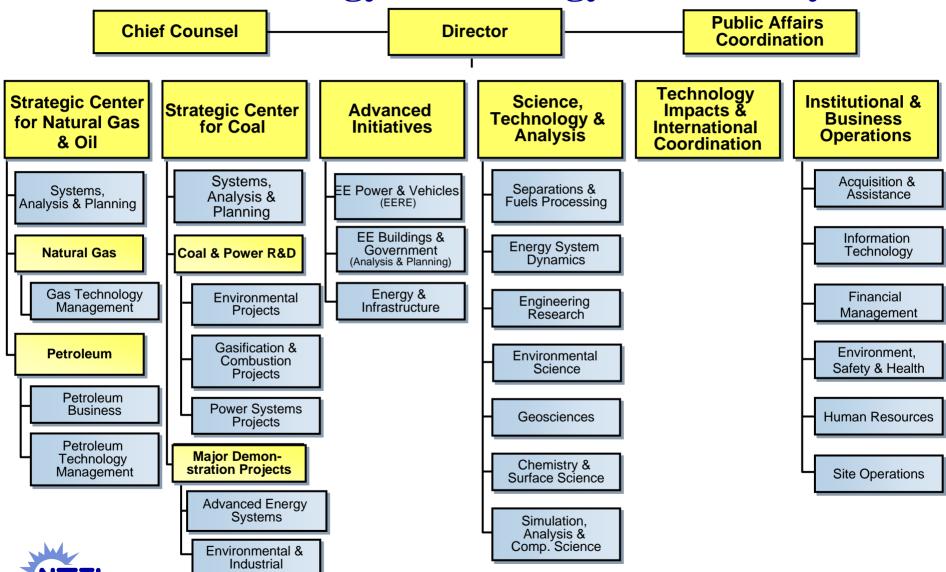
June 2005

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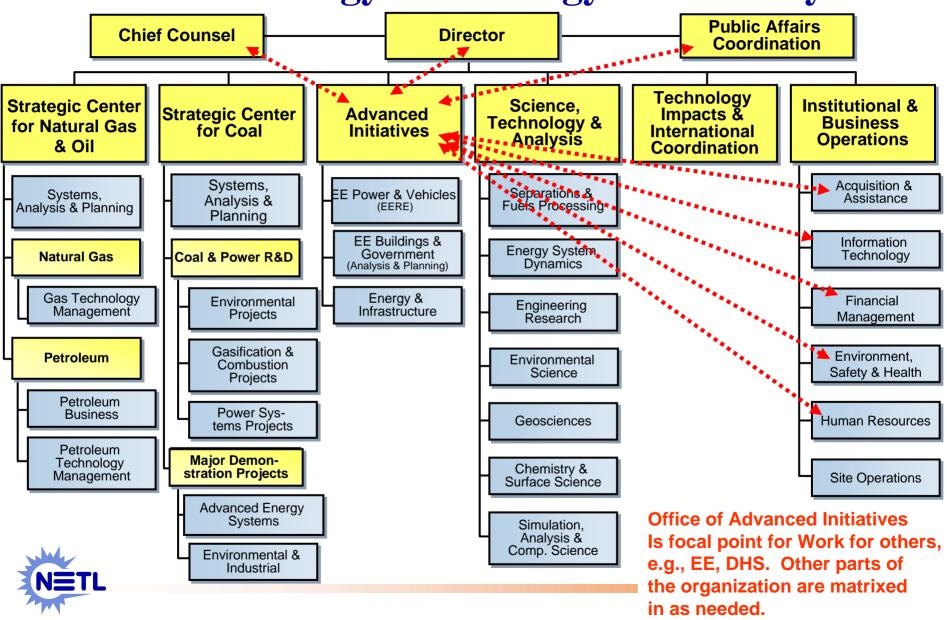




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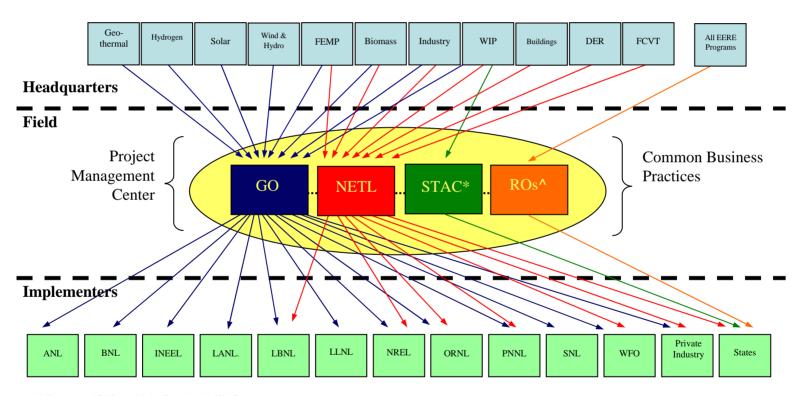


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Implementing the EERE Activities

Streamlined Implementation

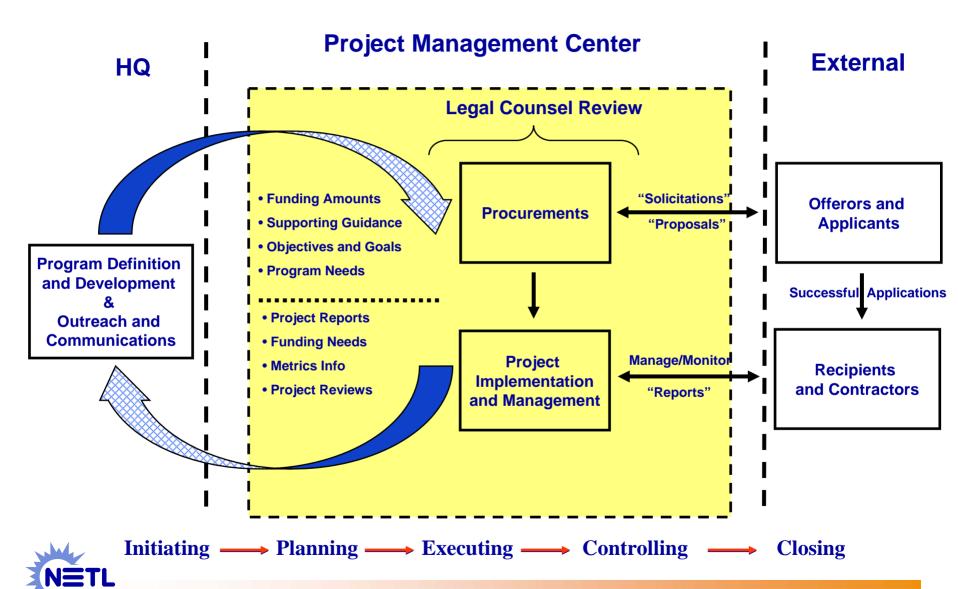


^{*}All state-based R&D would also flow through STAC

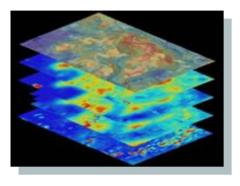
[^]All EERE 11 Programs work with the ROs on deployment activities



General Business Model



OAI: Activities other than DOE Fossil Energy



EnergyRelated Water
Growing issue in siting energy infrastructure



Systems analysis and projects for infrastructure protection





Energy Efficiency & Renewable Energy

Project Management Center FreedomCAR Distributed Energy Building Technologies Weatherization & Intergovernmental Program

Electric
Delivery &
Energy
Assurance





Building Technologies: R&D, Codes/Standards

"making buildings more energy efficient, productive, & affordable"









Building Technologies Program

Multi-Year Research, Development and Demonstration Plan

Planned program activities for 2004-2010

- Residential Buildings
- Commercial Buildings
- Emerging Technologies
 - Lighting
 - Conditioning & Refrigeration
 - Appliances
 - Building Envelope
 - Analysis Tools
 - Design Strategies
- Equipment Standards and Analysis
- Oil Heat R&D Residential Buildings

FINAL DRAFT January 9, 2004



Technologies for High Efficiency Clean Vehicles

Vehicle Systems

- Aerodynamics
- Rolling Resistance
- Accessory Loads
- Systems Analysis and Modeling

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Hybrid Propulsion

- Hybrid Electric Vehicles
- Electric Vehicles
- Power Electronics
- Batteries (NiMH & Lithium)
- Inverters/Controllers
- Motors
- Ultracapacitors

Deployment

- EPACT Fleets
- Test & Evaluation

Innovative Concepts

• GATE

Combustion and Emissions Control

- Combustion R&D
- Emissions Controls
- Clean Combustion

Fuels

- Advanced Petroleum Based Fuels
- Non-petroleum Fuels Synthetic & Renewable
- Fischer-Tropsch Fuels
 & Blendstocks
- Advanced Lubricants

Materials Technology

- Metals
- Composites
- Ceramics
- Propulsion Systems
- High Strength Weight Reduction

FY05: PMC-NETL Competitives

Buildings

- Solid State Lighting (42118): 5 Awards Complete
- Building Codes & Standards (42256): 1 July Award

Freedom Car

- Clean Combustion Technologies (42099): Jun/Jul Awards
- Program Wide Solicitation: Various Topics (42296): Jun/Jul Awards
- University Research: Various Topics: Aug/Sep Awards
- Analysis Market Approaches: July Award

Industrial

Grand Challenge: Mining Technologies (42064): <u>5 Awards Complete</u>

Office Weatherization & Intergovernmental Programs

- State Energy Program Projects: Aug/Sep Awards
- Million Solar Roof Installations: Jul/Aug Awards



FY06: Potential Solicitations

Buildings

- National Lab Call for Solid State Lighting: 2nd/3rd Qtr FY05 issuance
- Solid State Lighting Core Technologies: Summer FY05 issuance
- Solid State Lighting Industry Technologies: Summer/Fall issuance

Freedom Car

Possibly extend Program Wide Solicitation, Various Tech: Fall issuance

Distributed Energy

Thermal Energy: Summer/Fall issuance

Industrial

Grand Challenge, Mining (42064): Plans to enter another round on hold

Office Weatherization & Intergovernmental Programs

- Million Solar Roof Installations: Fall 06 solicitation
- State Energy Projects: Fall 06 solicitation

EERE Project Management

Larry Carpenter

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(M x4161)

Procure. Finance, etc. Matrixed As Needed

Chuck Zeh (Mx4265)

Division Director - EERE Power & Vehicles

Distributed Energy

FreedomCAR & Vehicle Tech.

Biomass (Black Liquor)

Distributed Energy

Doug Gyorke (Lead Px6173)

Don Geiling (Mx4784)

Mario Sciulli (Px5435)

Cary Smith (Mx4260)

FreedomCAR & Vehicle Tech.

Steve Cooke (Lead Mx5437)

Carl Maronde (Px6402)

Ralph Nine (Mx2017)

Samuel Taylor (Mx4681)

Aaron Yocum (Mx4852)

Vacancy (Materials)

Biomass (Black Liquor)

Larry Rath (Mx4094)

Eddie Christy (Mx4604)

Division Director – EERE Buildings & Government

Building Techologies

OWIP

Industrial Technologies (Mining)

FEMP (BAMF)

Building Technologies

Bill Haslebacher (Lead - Mx5435)

Joel Chaddock (Mx0958)

Parrish Galusky (Mx4358)

Evelvn Dale (Mx2016)

Ryan Egidi (Mx0945)

Paul Giles (Px4811)

Vacancy (Solid State Lighting)

OWIP

Judith Dyer (Lead Special Projects - Mx1347)

David Delmastro (Px5881)

ITP (Mining)

Mike Mosser (Lead - Mx4723)

Joe Renk (Px6406)

FEMP (BAMF)

Craig Hustwit (ESPC/Facilitation- Px4532)

